

Form 1449*	Atty. Docket No.: 600.450US2	Serial No. Unknown
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	Applicant: Paul Patrick Cleary et al.	164- Serial No. 10/05/30/05 10/05/30/05 10/05/30/05 10/05/30/05 10/05/30/05
	Filing Date: December 3, 1999	Group: Unknown

U.S. PATENT DOCUMENTS

**Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
SD	4,454,121	06/12/1984	Beachey	424	177	07/27/82
	4,695,562	09/22/1987	Beachey et al.	514	13	12/11/85
	4,772,584	09/20/1988	Cleary et al.	514	2	05/23/86
	5,124,153	06/23/1992	Beachey et al.	424	93 P	08/09/89
X	5,162,226	11/10/1992	Beachey et al.	435	252.3	08/24/87
SD	5,846,547	12/08/1998	Cleary	424	244.1	01/22/96

FOREIGN PATENT DOCUMENTS

**Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation Yes	Translation No
SD	89/09064	10/05/1989	PCT	A61K	39/02		
	93/14198	07/22/1993	PCT	C12N	9/02		
	93/21220	10/28/1993	PCT	C07K	7/08		
	94/06421	03/31/1994	PCT	A61K	31/18		
	94/06465	03/31/1994	PCT	A61K	39/02		
	95/28960	11/02/1995	PCT	A61K	39/09		
SD	97/26008	01/22/1996	PCT	A61K	39/09		

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

SD	Berg, A., et al., "Streptococcal Cysteine Proteinase Releases Biologically Active Fragments of Streptococcal Surface Proteins", <u>The Journal Of Biological Chemistry</u> , 270(17), 9862-9867, (1995)
	Bessen, D., et al., "Influence of Intranasal Immunization with Synthetic Peptides Corresponding to Conserved Epitopes of M Protein on Mucosal Colonization by Group A Streptococci", <u>Infection and Immunity</u> , 56(10), 2666-2672, (1988)
	Bessen, D., et al., "Synthetic Peptide Vaccine Against Mucosal Colonization by Group A Streptococci. I. Protection Against a Heterologous M Serotype with Shared C Repeat Region Epitopes", <u>J Immunol</u> , 145(4), 1251-1256, (1990)
	Booth, S., et al., "Dapsone Suppresses Integrin-Mediated Neutrophil Adherence Function", <u>The Journal of Investigative Dermatology</u> , 98(2), 135-140, (1992)
	Boyle, M., et al., "Measurement of Leukocyte Chemotaxis in Vivo", <u>Methods in Enzymology</u> , 162, 101-114, (1988)
SD	Bronze, M., et al., "Epitopes of group A streptococcal M protein that evoke cross-protective local immune responses", <u>J. Immunol.</u> , 148(3), 888-893, (1992)

Examiner

SD

Date Considered

October 03

*Substitute Disclosure Statement Form (PTO-1449)

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Form 1449*	Atty. Docket No.: 600.450US2	Serial No. Unknown
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	Applicant: Paul Patrick Cleary et al.	09/870,122
	Filing Date: December 3, 1999	Group: Unknown 1645

OTHER DOCUMENTS
(Including Author, Title, Date, Pertinent Pages, Etc.)

SD | Bronze, M., et al., "Protective Immunity Evoked by Locally Administered Group A Streptococcal Vaccines in Mice", J. Immunol., 141(8), 2767-2770, (1988)

SD | Brummer, E., et al., "Immunological Activation of Polymorphonuclear Neutrophilis for Fungal Killing: Studies with Murine Cells and Blastomyces Dermatitidis In Vitro", Journal of Leukocyte Biology, 36, 505-520, (1984)

SD | Carter, P., et al., "Dissecting the catalytic triad of a serine protease", Nature, Vol. 332, XP002135964, 564-568, (April 7, 1988)

SD | Chen, C.C., et al., "Complete Nucleotide Sequence of the Streptococcal C5A Peptidase Gene of Streptococcus pyogenes", The Journal of Biloqical Chemistry, 265(6), 3161-3167, (1990)

SD | Clark, J., et al., "A New Method for Quantitation of Cell-Mediated Immunity in the Mouse", Journal of the Reticuloendothelial Society, 25(3), 255-267, (1979)

SD | Cleary, P., et al., "A Streptococcal Inactivator of Chemotaxis: A new Virulence Factor Specific to Group A Streptococci", Recent Advances in Streptococci and Streptococcal Diseases (Y. Kimura, S. Kotami and Y. Shiokawa (ed). Reedbooks Ltd: Berkshire, England, 179-180, (1984)

SD | Cleary, P., et al., "Similarity Between the Group B and A Streptococcal C5a Peptidase Genes", Infection and Immunity, 60(10), 4239-4244, (1992)

SD | Cleary, P., et al., "Streptococcal C5a Peptidase is a Highly Specific Endopeptidase", Infection and Immunity, 60(12), 5219-5223, (1992)

SD | Cleary, P., et al., "Virulent Human Strains of Group G Streptococci Express a C5a Peptidase Enzyme Similar to that Produced by Group A Streptococci", Infection and Immunity, 59(7), 2305-2310, (July 1991)

SD | Courtney, H.S., et al., "Analysis of the role of M24 Protein in group A Streptococcal adhesion and colonization by use of 'omega'-interposon mutagenesis", Infect. Immun., 62(11), 4868-4873, (1994)

SD | Fenderson, P., et al., "Tropomyosin Shares immunology Epitopes with Group A Streptococcal M Proteins", The Journal of Immunology, 142(7), 2475-2481, (April 1989)

SD | Fischetti, V., "Streptococcal M Protein: Molecular Designn and Biological Behavior", Clinical Microbiology Reviews, 2(3), 285-314, (July 1989)

Examiner	Date Considered
SD	October 03

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**Examiner
Initial

OTHER DOCUMENTS
(Including Author, Title, Date, Pertinent Pages, Etc.)

SD | Fischetti, V.A., et al., "Protection against streptococcal pharyngeal colonization with vaccines composed of M protein conserved regions", Adv. Exp. Med. Bio., 303, 159-167, (1991)

SD | Fischetti, V.A., et al., "Protection against streptococcal pharyngeal colonization with a vaccine: M protein recombinant", Science, 244, 1487-1490, (1989)

SD | Hill, H., et al., "Group B Streptococci Inhibit the Chemotactic Activity of the Fifth Component of Complement", The Journal of Immunology, 141(10), 3551-3556, (1988)

SD | Hope-simpson, R., "Streptococcus Pyogenes in the Throat: A study in a small population, 1962-1975", J. Hyg. Camb., 87, 109-129, (1981)

SD | Ji, Y., et al., "C5a peptidase alters clearance and trafficking of group A streptococci by infected mice", Infection and Immunity, 64(2), 503-510, (1996)

SD | Ji, Y., et al., "Intranasal immunization with C5a peptidase prevents nasopharyngeal colonization of mice by the group A streptococcus", Infect. Immun., 65(6), 2080-2087, (1997)

SD | Kapur, V., et al., "Vaccination with streptococcal extracellular cysteine protease (interleukin-1B convertase) protects mice against challenge with heterologous group A streptococci", Microbial. Path., 16(6), 443-450, (1994)

SD | Laemmli, U.K., "Cleavage of Structural Proteins during the Assembly of the Head of Bacteriophage T4", Nature, 227, 680-685, (1970)

SD | Lee, P., et al., "Quantification and Toxicity of Group A Streptococcal Pyrogenic Exotoxins in an Animal Model of Toxic Shock Syndrome-Like Illness", Journal of Clinical Microbiology, 27(8), 1890-1892, (1989)

SD | Martin, T., et al., "The Effect of Type-Specific Polysaccharide Capsule on the Clearance of Group B Streptococci from the Lungs of Infant and Adult Rats", The Journal of Infectious Diseases, 165, 306-314, (1992)

SD | Massell, B., et al., "Rheumatic Fever Following Streptococcal Vaccination", JAMA, 207(6), 1115-1119, (1969)

SD | McGhee, J., et al., "New Perspective in Mucosal Immunity with Emphasis on Vaccine Development", Seminars in Hematology, 30 (4) Suppl. 4, pp. 3-15, (Oct. 1993)

Examiner

SD

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October 03

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**Examiner

Initial

OTHER DOCUMENTS
(Including Author, Title, Date, Pertinent Pages, Etc.)

SD 1) Medaglini, D., et al., "Mucosal and systemic immune responses to a recombinant protein expressed on the surface of the oral commensal bacterium *Streptococcus gordonii* after oral colonization", Proc. Natl. Acad. Sci. USA, 92(15), 6868-6872, (1995)

SD 2) O'connor, S., et al., "In Vivo *Streptococcus Pyogenes* C5a Peptidase Activity: Analysis Using Transposon- and Nitrosoguanidine- Induced Mutants", The Journal of Infectious Diseases, 156(3), 495-504, (1987)

SD 3) O'connor, S., et al., "The Human Antibody Response to Streptococcal C5a Peptidase", The Journal of Infection Diseases, 163, 109-116, (1991)

SD 4) Podbielski, A., et al., "The Group A Streptococcal VirR49 Gene Controls Expression of Four Structural Vir Regulon Genes", Infection and Immunity, 63(1), 9-20, (1995)

SD 5) Raeder, R., et al., "Properties of IgG-binding proteins expressed by *Streptococcus pyogenes* isolates are predictive of invasive potential", J. Infect. Dis., 173(4), 888-895, (1996)

SD 6) Springer, T., et al., "Mac-1: A Macrophage Differentiation Antigen Identified by Monoclonal Antibody", European Journal of Immunology, 9, 301-306, (1979)

SD 7) Sriskandan, S., et al., "Streptococcal pyrogenic exotoxin A (SPEA) release, distribution, and role in a murine model of fasciitis and multi-organ failure due to *Streptococcus pyogenes*", J. Infect. Dis., 173(6), 1399-1407, (1996)

SD 8) Sriskandan, S., et al., "The role of nitric oxide in experimental murine sepsis due to pyrogenic exotoxin A-producing *Streptococcus pyogenes*", Infect. Immun., 65(5), 1767-1762, (1997)

SD 9) Stafslien, D.K., et al., "Site Directed Mutagenesis of the Streptococcal C5a Peptidase", Abstracts of the General Mtg of the Am. Soc for Microbiology, Vol. 98, XP002135963, 59, (May, 1998)

SD 10) Stevens, D., "Invasive Group A *Streptococcus* Infections", Clinical Infectious Diseases, 14, 2-13, (1992)

SD 11) Suvorov, A., et al., "C5a Peptidase Gene from Group A *Streptococci*", Genetics and Molecular Biology of Streptococci, Lactococci, and Enterococci, Washington, D.C., 230-232, (1991)

Examiner

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OTHER DOCUMENTS

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<u>SD</u>	Vugia, D.J., et al., "Invasive group A streptococcal infections in children with varicella in Southern California", <u>Pediatr. Infect. Dis. J.</u> , <u>15</u> (2), 146-150, (1996)
	Wessels, M., et al., "Critical role of the group A streptococcal capsule in pharyngeal colonization and infection in mice", <u>Proc. Natl. Acad. Sci. USA</u> , <u>91</u> (25), 12238-12242, (1994)
<u>SD</u>	Wexler, D., et al., "Mechanism of Action of the Group A Streptococcal C5a Inactivator", <u>Proc. Natl. Acad. Sci.</u> <u>82</u> , 8144-8148, (1985)

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